



1

## SEQUENCE LISTING

<110> Anderson, Christen M.  
Carroll, Amy Karen

<120> PRODUCTION OF ADENINE NUCLEOTIDE  
TRANSLOCATOR (ANT), NOVEL ANT LIGANDS  
AND SCREENING ASSAYS THEREFOR

<130> 660088.443C1

<140> US 10/763,398

<141> 2004-01-23

<150> 09/569,327

<151> 2000-05-11

<150> PCT/US99/25883

<151> 1999-11-03

<150> 09/393,441

<151> 1999-09-08

<150> 09/185,904

<151> 1998-11-03

<160> 20

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 894

<212> DNA

<213> Homo sapiens

<400> 1

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gccagcaaac agatcagtg c tgagaagcag tacaaaggga tcattgattg tgtggtgaga 180
atccctaagg agcagggcctt cctctccttc tggaggggta acctggccaa cgtgatccgt 240
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atcaagatct tcaagtctga tggcctgagg gggctctacc agggtttcaa cgtctctgtc 540
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gcagtcgcag ggctgctgtc ctaccctttt gacactgttc gtcgtagaat gatgatgcag 720
tccggccgga aagggggccga tattatgtac acgggggacag ttgactgctg gaggaagatt 780
gcaaaagacg aaggagccaa ggccttcttc aaagggtgcct ggtccaatgt gctgagaggc 840
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 gccagcaagc agatcactgc agataagcaa tacaaaggca ttatagactg cgtgggtccgt 180  
 attcccaagg agcaggaagt tctgtccttc tggcgcggta acctggccaa tgtcatcaga 240  
 tacttcccca cccaggctct taacttcgcc ttcaaagata aatacaagca gatcttcctg 300  
 ggtggtgtgg acaagagaac ccagtttttg ctctactttg cagggaatct ggcatcgggt 360  
 ggtgccgcag gggccacatc cctgtgtttt gtgtaccctc ttgattttgc ccgtaccctg 420  
 cttagcagctg atgtgggtaa agctggagct gaaagggaat tccgaggcct cggtgactgc 480  
 ctggttaaga tctacaaatc tgatgggatt aaggggcctgt accaaggctt taacgtgtct 540  
 gtgcagggta ttatcatcta ccgagccgcc tacttcggta tctatgacac tgcaaaggga 600  
 atgcttccgg atcccaagaa cactcacatc gtcatcagct ggatgatcgc acagactgtc 660  
 actgctgttg ccgggttgac ttcttatcca tttgacactg ttgcgcgcgc catgatgatg 720  
 cagtcagggc gcaaagggaac tgacatcatg tacacaggca cgcttgactg ctggcgggaag 780  
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 gccagcaagc agatcgccgc cgacaagcag tacaagggca tcgtggactg cattgtccgc 180  
 atccccaagg agcagggcgt gctgtccttc tggaggggca accttgccaa cgtcattcgc 240  
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 <213> Homo sapiens

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	35					40					45				
Lys	Gln	Tyr	Lys	Gly	Ile	Ile	Asp	Cys	Val	Val	Arg	Ile	Pro	Lys	Glu
	50					55					60				
Gln	Gly	Phe	Leu	Ser	Phe	Trp	Arg	Gly	Asn	Leu	Ala	Asn	Val	Ile	Arg
65					70					75				80	
Tyr	Phe	Pro	Thr	Gln	Ala	Leu	Asn	Phe	Ala	Phe	Lys	Asp	Lys	Tyr	Lys
				85					90				95		
Gln	Leu	Phe	Leu	Gly	Gly	Val	Asp	Arg	His	Lys	Gln	Phe	Trp	Arg	Tyr
			100					105					110		
Phe	Ala	Gly	Asn	Leu	Ala	Ser	Gly	Gly	Ala	Ala	Gly	Ala	Thr	Ser	Leu
		115					120					125			
Cys	Phe	Val	Tyr	Pro	Leu	Asp	Phe	Ala	Arg	Thr	Arg	Leu	Ala	Ala	Asp
	130					135					140				
Val	Gly	Arg	Arg	Ala	Gln	Arg	Glu	Phe	His	Gly	Leu	Gly	Asp	Cys	Ile
145					150					155				160	
Ile	Lys	Ile	Phe	Lys	Ser	Asp	Gly	Leu	Arg	Gly	Leu	Tyr	Gln	Gly	Phe
				165					170					175	
Asn	Val	Ser	Val	Gln	Gly	Ile	Ile	Ile	Tyr	Arg	Ala	Ala	Tyr	Phe	Gly
			180					185					190		
Val	Tyr	Asp	Thr	Ala	Lys	Gly	Met	Leu	Pro	Asp	Pro	Lys	Asn	Val	His
		195					200					205			
Ile	Phe	Val	Ser	Trp	Met	Ile	Ala	Gln	Ser	Val	Thr	Ala	Val	Ala	Gly
	210					215					220				
Leu	Leu	Ser	Tyr	Pro	Phe	Asp	Thr	Val	Arg	Arg	Arg	Met	Met	Met	Gln
225					230					235				240	
Ser	Gly	Arg	Lys	Gly	Ala	Asp	Ile	Met	Tyr	Thr	Gly	Thr	Val	Asp	Cys
				245					250					255	
Trp	Arg	Lys	Ile	Ala	Lys	Asp	Glu	Gly	Ala	Lys	Ala	Phe	Phe	Lys	Gly
			260					265				270			
Ala	Trp	Ser	Asn	Val	Leu	Arg	Gly	Met	Gly	Gly	Ala	Phe	Val	Leu	Val
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Leu	Tyr	Asp	Glu	Ile	Lys	Lys	Tyr	Val							
	290					295									

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<210> 5
<211> 298
<212> PRT
<213> Homo sapiens
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<400> 5															
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Val	Ala	Ala	Ala	Ile	Ser	Lys	Thr	Ala	Val	Ala	Pro	Ile	Glu	Arg	Val
			20					25					30		
Lys	Leu	Leu	Leu	Gln	Val	Gln	His	Ala	Ser	Lys	Gln	Ile	Thr	Ala	Asp
		35				40						45			
Lys	Gln	Tyr	Lys	Gly	Ile	Ile	Asp	Cys	Val	Val	Arg	Ile	Pro	Lys	Glu
	50					55					60				
Gln	Glu	Val	Leu	Ser	Phe	Trp	Arg	Gly	Asn	Leu	Ala	Asn	Val	Ile	Arg
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Tyr	Phe	Pro	Thr	Gln	Ala	Leu	Asn	Phe	Ala	Phe	Lys	Asp	Lys	Tyr	Lys
				85					90					95	

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 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu  
                   115                  120                  125  
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp  
                   130                  135                  140  
 Val Gly Lys Ala Gly Ala Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys  
                   145                  150                  155                  160  
 Leu Val Lys Ile Tyr Lys Ser Asp Gly Ile Lys Gly Leu Tyr Gln Gly  
                   165                  170                  175  
 Phe Asn Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe  
                   180                  185                  190  
 Gly Ile Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr  
                   195                  200                  205  
 His Ile Val Ile Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala  
                   210                  215                  220  
 Gly Leu Thr Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met  
                   225                  230                  235                  240  
 Gln Ser Gly Arg Lys Gly Thr Asp Ile Met Tyr Thr Gly Thr Leu Asp  
                   245                  250                  255  
 Cys Trp Arg Lys Ile Ala Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys  
                   260                  265                  270  
 Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu  
                   275                  280                  285  
 Val Leu Tyr Asp Glu Ile Lys Lys Tyr Thr  
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<210> 6

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<212> PRT

<213> Homo sapiens

<400> 6

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 Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ala Ala Asp  
                   35                  40                  45  
 Lys Gln Tyr Lys Gly Ile Val Asp Cys Ile Val Arg Ile Pro Lys Glu  
                   50                  55                  60  
 Gln Gly Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg  
                   65                  70                  75                  80  
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys  
                   85                  90                  95  
 Gln Ile Phe Leu Gly Gly Val Asp Lys His Thr Gln Phe Trp Arg Tyr  
                   100                  105                  110  
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu  
                   115                  120                  125  
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp  
                   130                  135                  140  
 Val Gly Lys Ser Gly Thr Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys  
                   145                  150                  155                  160

Leu Val Lys Ile Thr Lys Ser Asp Gly Ile Arg Gly Leu Tyr Gln Gly  
                           165                          170                          175  
 Phe Ser Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe  
                           180                          185                          190  
 Gly Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr  
                           195                          200                          205  
 His Ile Val Val Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala  
                           210                          215                          220  
 Gly Val Val Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met  
                           225                          230                          235                          240  
 Gln Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp  
                           245                          250                          255  
 Cys Trp Arg Lys Ile Phe Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys  
                           260                          265                          270  
 Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu  
                           275                          280                          285  
 Val Leu Tyr Asp Glu Leu Lys Lys Val Ile  
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<220>  
 <223> primer used for human ANT1 amplification

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<210> 8  
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<220>  
 <223> Primer used for human ANT1 amplification

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<210> 9  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
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<210> 10

<211> 43  
 <212> DNA  
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<210> 11  
 <211> 28  
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<210> 12  
 <211> 33  
 <212> DNA  
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<210> 13  
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<210> 14  
 <211> 31  
 <212> DNA  
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<400> 14  
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<210> 15  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Sequencing primer

<400> 15  
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<210> 16  
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 <212> DNA  
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<220>  
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<400> 16  
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<210> 17  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polypeptide corresponding to a portion  
 of huANT3 located near the carboxy terminus.

<400> 17  
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<210> 18  
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<220>  
 <223> Monospecific antibody specific to ANT3 derived  
 from a portion of the huANT3 polypeptide sequence

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 1 5 10 15  
 Lys Ile Thr

<210> 19  
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<212> PRT

<213> Artificial Sequence

<220>

<223> Monospecific antibody specific to ANT2 derived  
from huANT2.

<400> 19

Met	Thr	Asp	Ala	Ala	Val	Ser	Phe	Ala	Lys	Asp	Phe	Leu	Ala	Gly	Cys
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<210> 20

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Monospecific antibody specific to ANT1 derived  
from huANT1.

<400> 20

Met	Gly	Asp	His	Ala	Trp	Ser	Phe	Leu	Lys	Asp	Leu	Leu	Ala	Gly	Cys
1				5					10					15	